

## Compatibility studies of mixed thermoplastic rubber with road bitumen

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### Abstract

This paper is devoted to the study of bitumen compatibility with mixed thermoplastic rubber designed for its modification which is three polymer mixture. Unlike most popular bitumen modifiers based on butadiene and styrene copolymers having unsaturated main chain, the proposed polymer is composed of components with saturated hydrocarbon main chain. Thus, the increased weather resistance is provided for the products and designs based on modified bitumen. The solubility of mixed thermoplastic rubber and its components separately is studied.  
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### Keywords

Bitumen, Bitumen modification, Mixed thermoplastic rubber, Polymer bitumen, Weather resistance